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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/454,875	12/03/1999	NACERDINE AZZI	RCA-89342	4350

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EXAMINER	
ZIMMERMAN, GLENN	
ART UNIT	**PAPER NUMBER**
2879	

DATE MAILED: 03/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/454,875	AZZI ET AL.	
	Examiner	Art Unit	
	Glenn Zimmerman	2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *December 11, 2003*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *5,6 and 22* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *5, 6 and 22* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☒ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

Amendment, filed on December 11, 2004, has been entered and acknowledged by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 22 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Dekkers et al. U.S. Patent 5,550,522.

Regarding claim 22, Dekkers et al. discloses a deflection yoke **(an electromagnetic deflection unit Fig. 1 ref. 5)** for a cathode-ray tube comprising: a pair of horizontal deflection coils **(line deflection coils Fig. 2 ref. 10a and 10b)** and a pair of vertical deflection coils **(field deflection coils ref. 7)** for generating magnetic deflection fields perpendicular to a main axis of the cathode-ray tube, one of the pairs including saddle-shaped coils **(col. 4 line 57 and 64)** having conducting wires arranged so as to form a front conductor assembly **(Fig. 5 ref. 10a front portion under 16a; col 1 line 1; col. 5 lines 1-5)** and a rear conductor assembly coupled **(Fig. 1 ref. 7 rear part or rear part of Fig. 2 ref. 10a and 10b no ref. #; col. 5 lines 1-5)** to each other by

lateral conductor bundles **(Fig. 1 ref. 7 bundle sections shown and Fig. 2 ref. 10a and 10b bundle sections shown; col. 4 lines 66-67; col. 5 lines 1-5)**, and those parts of each of the coils which form the rear conductor assembly and the lateral bundles being arranged approximately symmetrically with respect to a plane **(Fig. 2 no ref. #; Fig. 1 ref. 7 no ref. #)**; and

A first metal plate **(preformed premagnetized elements of permanent magnetic ferrite ref. 14)** placed near **(annular support Fig. 5 ref. 13; Fig. 3; Fig. 7)** the front conductor assembly for locally modifying one of the direction and the amplitude of the magnetic field created by the current flow in the front conductor assembly so that, considering a first zone of the front conductor assembly and a second zone symmetrical with the first zone with respect to the plane **(Fig. 2 shows symmetry)**, the fields created in the first and second zones are asymmetrical with respect to the plane **(col. 1 lines 24-30)**.

A second metal plate wherein the first and second metal plates extend on both of the saddle-shaped coils of the same pair, symmetrically with respect to the Z axis **(Fig. 3 and 5; col. 5 lines 58-59)**.

Regarding claim 6, Dekkers et al. discloses a deflection yoke according to claim 22, wherein the first metal plate extends, in a plane perpendicular to the Z axis, about a mean radial direction of between 60 degrees and 90 degrees measured with respect to the direction of the plane of separation of the two coils of the same pair **(Fig. 3)**. Figure 3 clearly shows that there are several metal plates one can choose in the 60 to 90 degree range.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dekkers et al. U.S. Patent 5,550,522 in view of Barkow et al. U.S. Patent 3,721,930.

Regarding claim 5, Dekkers et al. teaches all the limitations of claim 5, but fails to teach a deflection yoke wherein the saddle-shaped coils are the vertical deflection coils. Barkow in the analogous art teaches wherein the saddle-shaped coils are vertical deflection coil. Additionally, Barkow teaches incorporation of such a coil to improve deflecting of electron beams **(col. 8 lines 62-67)**.

Consequently it would have been obvious to a person having ordinary skill in the art at the time the invention was made to use a vertical deflection coil in the saddle-shaped coil of Dekkers et al. since such a modification would improve deflecting of electron beams as taught by Barkow.

Response to Arguments

Applicant's arguments filed December 11, 2003 have been fully considered but they are not persuasive. The applicant asserts that "Nowhere do Dekkers et al., suggest

the specific placement of the first and second metal plates of currently amended claim 22 so as to extend on both of the saddle-shaped coils of the same pair, symmetrically with respect to the Z axis". The examiner notes that column 5 of Dekkers et al. clearly states that on the annular (conical) support 13 there are 24 compartments 12, are recessed every 15° in the inner surface. Preformed, premagnitized elements 14 ... are located in a plurality of the compartments. Also in column 5 the prior art patent states that magnetic preformed elements 14 ... can be connected to the bottoms of the (0-7 mm) deep compartments 24 by means of glueing. This means all 24 compartments can and do have magnetic preformed elements within them. In fact, the compartments don't even need to have any depth as the examiner notes (0-7 mm) and one can choose 0mm. The examiner notes that a compartment is recessed every 15 degrees, and this means that there will be a magnetic preformed element at 0 degrees and 180 degrees which are symmetric, as 180 degrees is an integer multiple of 15 degrees (12x). The examiner notes that just looking at the Figure 3, one can see the clear symmetry with respect to the Z axis. The examiner also notes that clearly Fig. 5 shows that the ring 13 is on the coils and the magnetic preformed elements are on the ring. Even if the magnetic preformed elements don't necessarily contact the coil 10A they are on the coil as on has a definition meaning "Used to indicate position above and supported by". The examiner notes that in column 5 the patent states that, In a preferred embodiment the upper side of the ring 13 registers with the upper side of the deflection coils 10a and 10b. The ring 13 has a shape which fits in with the shape of the deflection coils 10a, 10b. The examiner also notes that ref. 13 is called an annular (conical) support.

Annular means ring shaped which means the ref. 13 has a constant radius. The examiner also notes how the flange ref. 8 is in the X-Y plane from Fig. 1 and how in Fig. 5 the ring 13 is attached to the flange with ref. 15. The examiner notes in Fig. 7, that the X-Y plane is show which is perpendicular to the longitudinal-axis i.e. Z-axis, this therefore clearly shows symmetry with respect to the Z-axis. Also the examiner notes that Fig. 2 shows the symmetry with respect to the Z-axis of the deflection unit which the annular support fits on, which clearly shows that the second metal plate will be symmetrically with respect to the Z-axis. The examiner notes that ferrite is clearly iron.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn Zimmerman whose telephone number is (571) 272-2466. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Glenn Zimmerman

Vip Patel
Primary Examiner
Art Unit 2879